

**FOR DOGM USE ONLY:**File #:(M/\$) 047 / 013 - ( )Approved: (mm/dd/yy)       /      /      Bond Adjustment: (\$)                                 *— SITE INSPECTION  
TO BE PERFORMED  
9-2-92**COTTONWOOD #3*STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203**RECEIVED**

JUL 22 1992

DIVISION OF  
OIL GAS & MINING**NOTICE OF INTENTION TO REVISE MINING OPERATIONS**

When an operator intends to revise a mining operation, a **Notice of Intention to Revise Mining Operations** shall be filed with the Division. The notice must include all information, concerning the revision, that would have been required if it had been included in the original Notice of Intention (NOI). Ideally, the revision application should be a "stand-alone" document and include all information necessary to conduct a complete review.

**"REVISION"** means a **significant change** to the approved Notice of Intention to Conduct Mining Operations, which will increase the amount of land affected or alter the location and type of onsite surface facilities such that the nature of the reclamation plan will differ substantially from the approved Notice of Intention. Revisions require public notice and may require approval by the Board of Oil, Gas & Mining, if a change to the amount and/or form of the reclamation surety is necessary.

**"AMENDMENT"** is an **insignificant change** to the approved Notice of Intention. An amendment requires Division approval, but does not require public notice.

The Division will determine whether a request for change is significant or insignificant on an individual case-by-case basis.

**PLEASE NOTE:** When applicable, reference to previously approved information contained in the original NOI can be used (identify volume #'s, section, page #, plate/map #'s, & date of submittal). If possible, please attach appropriate copies of the referenced material as part of the application for revision.

Where possible, please format the application to revise mining operations (e.g., text, maps, tables, figures, etc.) to allow direct insertion into the original NOI as replacement pages, or as a separate addendum to the approved NOI.

**The operator is encouraged to use this form as a guide only. Please use extra sheets as necessary to complete each section that follows.**

The following information must be included as part of the application to revise mining operations:

## I. GENERAL INFORMATION (Rule R647-4-104)

1. Name of Operator/Applicant: ZIEGLER CHEMICAL & MINERAL CORPORATION
2. Name of Company/Corporation: ZIEGLER CHEMICAL & MINERAL CORPORATION
3. Address: 100 JERICHO QUAD, JERICHO, NY11753  
UTAH ADDRESS: C/O NORMAN HASLEM, MANAGER, STAR ROUTE, VERNAL, UT  
84078
4. Phone: (516 ) 681-9600  
UTAH (801) 789\*\*3593
5. Name of Mine/Project: COTTONWOOD #3 MINE
6. Previously Assigned File Number: (M / S) /047 / 013  
\*from original Notice of Intention (NOI)
7. Location of Proposed Activities:

COUNTY UINTAH

TOWNSHIP 10 SOUTH, RANGE 21 EAST,

SECTION(S) 29 & 30 (Identify to 1/4, 1/4 section)

SW 1/4 of NW 1/4 of Section 29  
SE 1/4 of NE 1/4 of Section 30

- ## 8. Ownership of Land Surface:

Private (Fee) \_\_\_\_ Owners Name(s): \_\_\_\_\_  
(Private) \_\_\_\_\_

State of Utah   x   Public Domain (BLM) \_\_\_\_\_ National Forest (USFS) \_\_\_\_\_

9. Ownership of Minerals:

Private (Fee) \_\_\_\_ Owners Names(s): \_\_\_\_\_  
(Private) \_\_\_\_\_

State of Utah x Public Domain (BLM) \_\_\_\_\_ National Forest (USFS) \_\_\_\_\_

10. Utah Mining Claim Number(s) \_\_\_\_\_  
\_\_\_\_\_

11. Utah State Lease Numbers(s) ML 20779 and ML 19868  
\_\_\_\_\_

**II. MAPS, DRAWINGS & PHOTOGRAPHS (Rule R647-4-105)**

Appropriate maps, drawings, plates, etc. should be provided that are pertinent to the revision, or amendment of mining operations. Please provide a revised map outlining the previously approved and the new proposed disturbed area boundaries. These materials should be prepared according to the requirements of Rule R647-4-105.

List map numbers or appendices used for this section: See Exhibits C and D attached

*3 PGS.*

**III. OPERATION PLAN (Rule R647-4-106)**

Provide a narrative description, referencing any appropriate attached maps or drawings, of the pertinent details of the proposed change(s) in the operating plan. Specific details which are different from those described in the original approved NOI should be included. Identify additional proposed surface disturbance. Include the total number of acres to be affected by the revision or amendment. All appropriate information requirements as outlined under Rule R647-4-106 must be addressed in the application.

Refer to Exhibit A attached hereto.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**IV. IMPACT ASSESSMENT (Rule R647-4-109)**

Please provide information as required under Rule R647-4-109 regarding projected potential surface and/or subsurface impacts which may be associated with the proposed change(s) in mining operations.

Refer to Exhibit A attached hereto.

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**V. RECLAMATION PLAN (Rule R647-4-110)**

Describe how you intend to stabilize the disturbed areas upon cessation of operations. This includes backfilling excavations, grading, sloping or contouring, permanent stabilization of slopes or roads, permanent closure of roads, removal of structures and improvements, etc. Provide cross section of the proposed final contour of the land after reclamation.

Please outline any proposed changes to the originally approved reclamation plan. Appropriate sections of Rule R647-4-110 must be addressed as they may apply to the proposed change(s) in mining operations.

Refer to Exhibit A attached hereto.

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## VI. VARIANCE (Rule R647-4-112)

Please identify any requests for variance from the requirements of rules R647-4-107, -108, or -111. A narrative justification must also be included for each variance request. A discussion of any alternate methods or other mitigating measures should be included, if applicable.

n/a

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## VII. SURETY (Rule 647-4-113)

### Reclamation Surety:

Indicate whether the proposed activities will change the amount of work required to reclaim the minesite. If significant changes will result, then an itemized reclamation cost estimate should be provided (and attached) with direct reference to the specifics of the proposed change(s). This information will be used to assist the Division in determining any reclamation surety adjustments required for the operation.

No. Due to minimal surface disturbance reclamation of mine site can be accomplished as described in the original NOI filed in July 1986.

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### VIII. SIGNATURE REQUIREMENT

The application for permit change must include a section similar to the following example:

I hereby certify that the foregoing is true and correct.

Norman R. Haslem  
Signature of Authorized Officer/Representative:

NORMAN R. HASLEM  
Name (Typed or Print):

MANAGER, ZIEGLER CHEMICAL VERNAL OFFICE  
Title of Authorized Officer/Representative:

Date: 7/20/92

DOGMA REC 7-22-92

COTTONWOOD #3

## EXHIBIT A

### III. OPERATION PLAN (Rule R647-4-106)

The proposed mining operation will involve two (2) miners and one hoistman working one shift per day. Mining operations will be conducted through a shaft opening which will be encased in a concrete collar. The shaft walls will extend nearly straight down to a depth where the ore is of sufficient width to be mined. A slope will be created allowing the gilsonite as it is chipped loose to slide down the slope to a bin where an airlift system will convey the gilsonite to the surface, dumping it in a truck loading bin. This mining method is often referred to as the underhand rill method.

A conventional headframe will be placed over the shaft opening and/or hoisted will be transported at the rate of about twenty (20) tons per day to the Ziegler processing plant at Little Bonanza, Utah. This will require hauling an average of one (1) twenty (20) ton truck load of gilsonite per day. During transportation the load of gilsonite will be fully covered by a tarp. The route to be used for hauling the gilsonite consists of unpaved oil field roads and county roads which are maintained and kept open as the weather requires by the oil companies and the county. The route to be used is shown on the map attached as Exhibit B.

The total number of acres to be affected is approximately 1.2

acres and the mineral to be mined is gilsonite.

The proposed mining operation should not require disposal of any overburden since the gilsonite vein comes to the surface in this area. Any waste rock encountered during the mining operation will be left in mined out shafts.

The area surrounding the proposed mine shaft consists of barren hills and dry washes, sparsely vegetated with salt desert shrub, horsebrush, four-wing saltbush, greasewood, black sage, rabbitbrush, and sagebrush. Grasses found include Indian ricegrass, needle and thread, cheatgrass and galleta. The area is too dry to support the growth of any significant quantities of grass or other feed type vegetation, consequently there is minimal animal life present in the area. Wildlife which are occasionally present in the area include rabbits, coyotes, antelope, and birds.

There are gas and oil wells in the general vicinity, the nearest being more than one (1) mile from the proposed mine site. Other than the gas and oil wells there is no known use of, or activity on the land in the immediate vicinity of the proposed operations. Upon completion of mining operations the area will be machine compacted, soil will be tested at a State approved lab and seed bed preparation will follow the recommendations of the State approved laboratory and the area will be regraded. Attached hereto and labeled as Exhibit C are maps showing the site plan, the

vicinity of the mine site and the current and proposed reclaimed areas.

After the gilsonite accessible from the initial shaft has been removed, mining operations will move to the escape shaft site approximately 600 feet to the northwest of the initial mine site. At that time the shaft proposed herein will be preserved as an escape route from the new shaft.

During the time that it is used as an escape way the initial shaft will be maintained in a safe and operable condition and the surrounding area will be fenced. The mine shaft, generator, fuel storage tank and escape shaft will be enclosed within a fence to limit any chance of injury to persons who might wander into the area.

When a mine shaft is no longer needed as an escape way it will be sealed with a cap of 12 inch thick reinforced concrete.

#### **IV. IMPACT ASSESSMENT (Rule R647-4-109)**

There will be minimal surface disturbance; ground water will not be affected and there will be no impact on wildlife. There will be no impact on erosion control and air quality. Furthermore, as stated above, precautionary measures will be exercised to ensure that the area will be fenced in for the public health and safety of others.

#### **V. RECLAMATION PLAN (Rule R647-4-110)**

Reclamation will be accomplished as described in the original NOI application dated July 1986.

The area consists of sparsely populated grass, horsegrass, greasewood, rabbitbrush and sagebush which is seldom inhabited by rabbits, birds, coyotes and antelope. When mining operations are completed, the land will be returned to its current condition and reclaimed as recommended by a State approved laboratory.

When a mine shaft is no longer needed as an escape way, it will be ~~se~~aled with a cap of 12 inch thick reinforced concrete.

After operations are completed, all buildings, machinery and debris will be removed from the site. Any areas where the surface has been disturbed will be regraded to rounded cross sections. Where possible soil material will be placed over the building sites and storage areas after regrading.

Once mining operations are completed, there will be no deleterious or acid forming materials left on the site as a result of mining or mineral processing.

All disturbed soil will be scarified and fertilized prior to reseeding. Reseeding will be based on recommendations of soil tests conducted by a State approved laboratory.

COTTONWOOD GILSONITE MINES

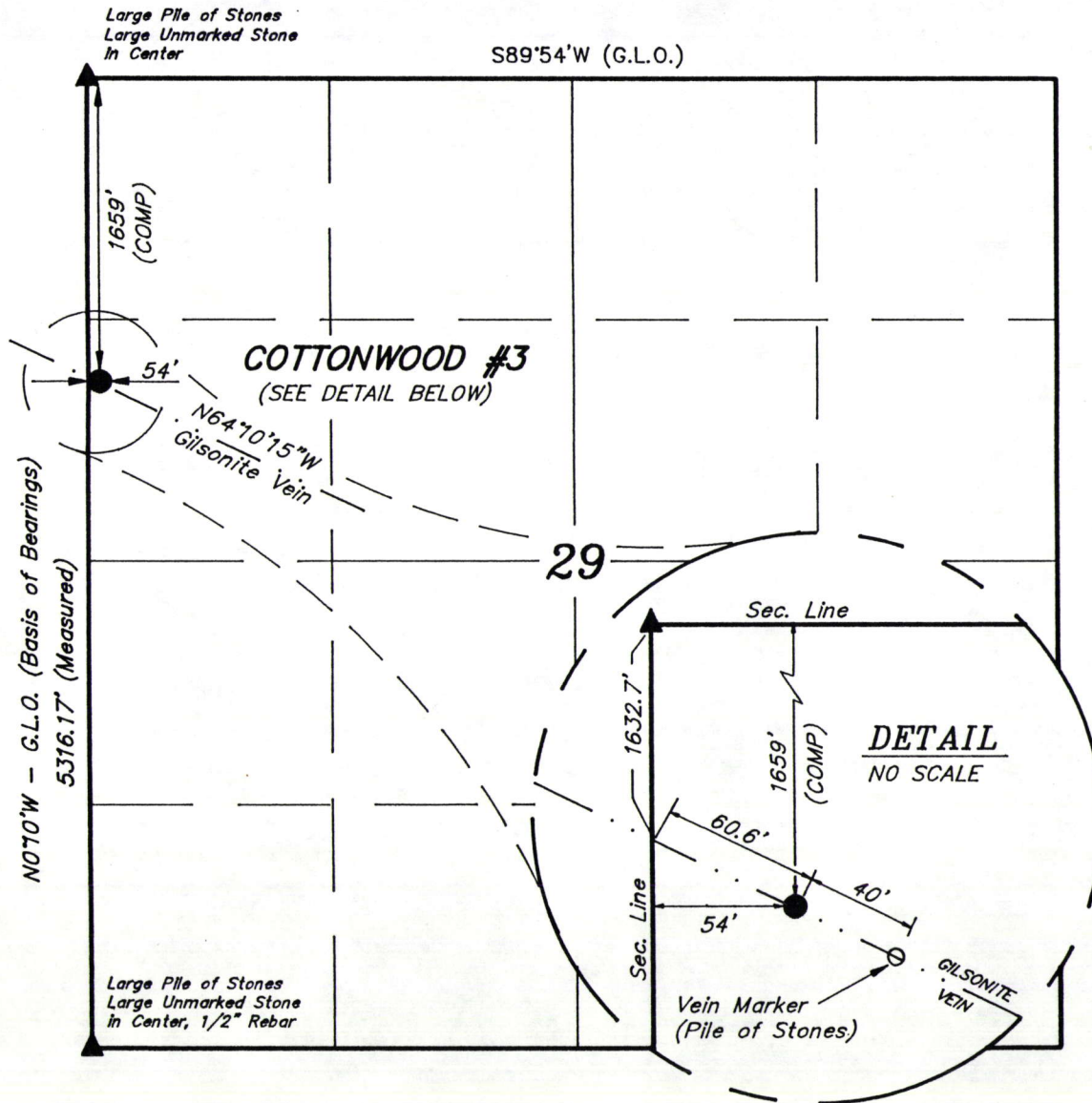
DOGM REC. 7-22-92

<u>NAME</u>	<u>ACRES</u>
Cottonwood #1	1.24 To be reclaimed in 1992
Cottonwood #2	1.50 To be reclaimed in 1992
Cottonwood #3	1.20 T10S, R21E, Section 29: SW 1/4 of NW 1/4 of Section 29.  T10S, R21E, Section 30: SE 1/4 of NE 1/4 of Section 30.

**T10S, R21E, S.L.B.&M.**

**ZIEGLER CHEMICAL & MINERAL CORP.**

Mine Shaft, COTTONWOOD #3, located as shown in the SW 1/4 NW 1/4 of Section 29, T10S, R21E, S.L.B.&M. Uintah County, Utah.



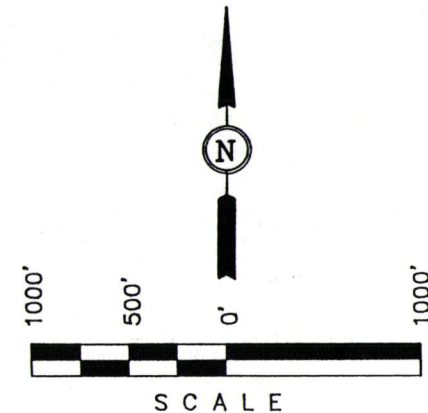
**LEGEND:**

└ = 90° SYMBOL

● = PROPOSED GILSONITE MINE SHAFT.

▲ = SECTION CORNERS LOCATED.

NOTE:  
PROPOSED SHAFT BEARS  
S2°02'47"E - 1660.1'  
FROM THE NORTHWEST CORNER  
OF SECTION 29.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. KAY  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 5709  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 5-22-92	DATE DRAWN: 6-3-92
PARTY G.S. K.L. R.E.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE ZIEGLER CHEMICAL	

DO NOT REC. 7-27

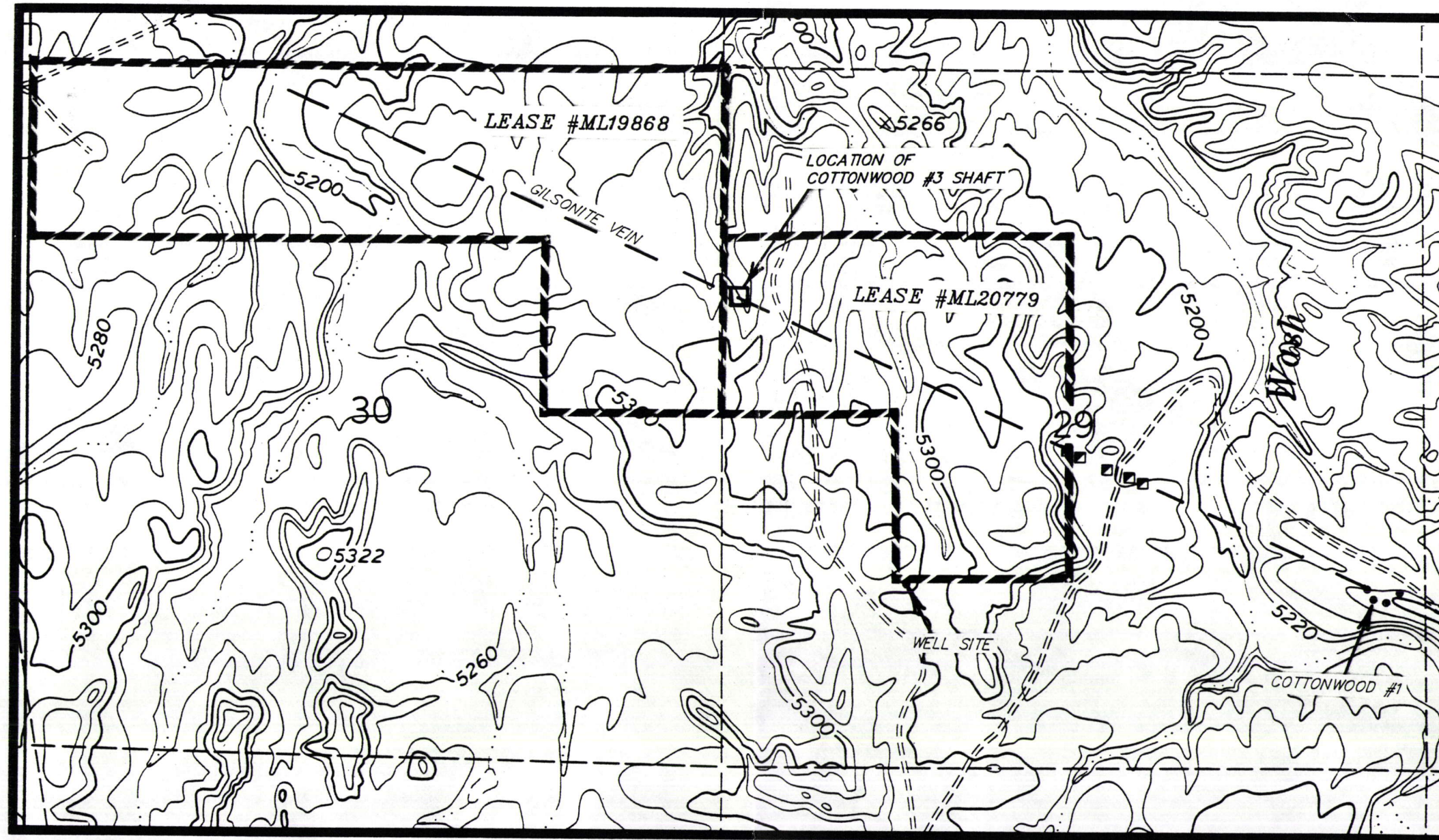
# ZIEGLER CHEMICAL

## COTTONWOOD #3

LOCATED IN  
SECTION 29, T10S, R21E, S.L.B.&M.



DATE: 6-2-92



### VICINITY MAP

Scale: 1" = 1000'

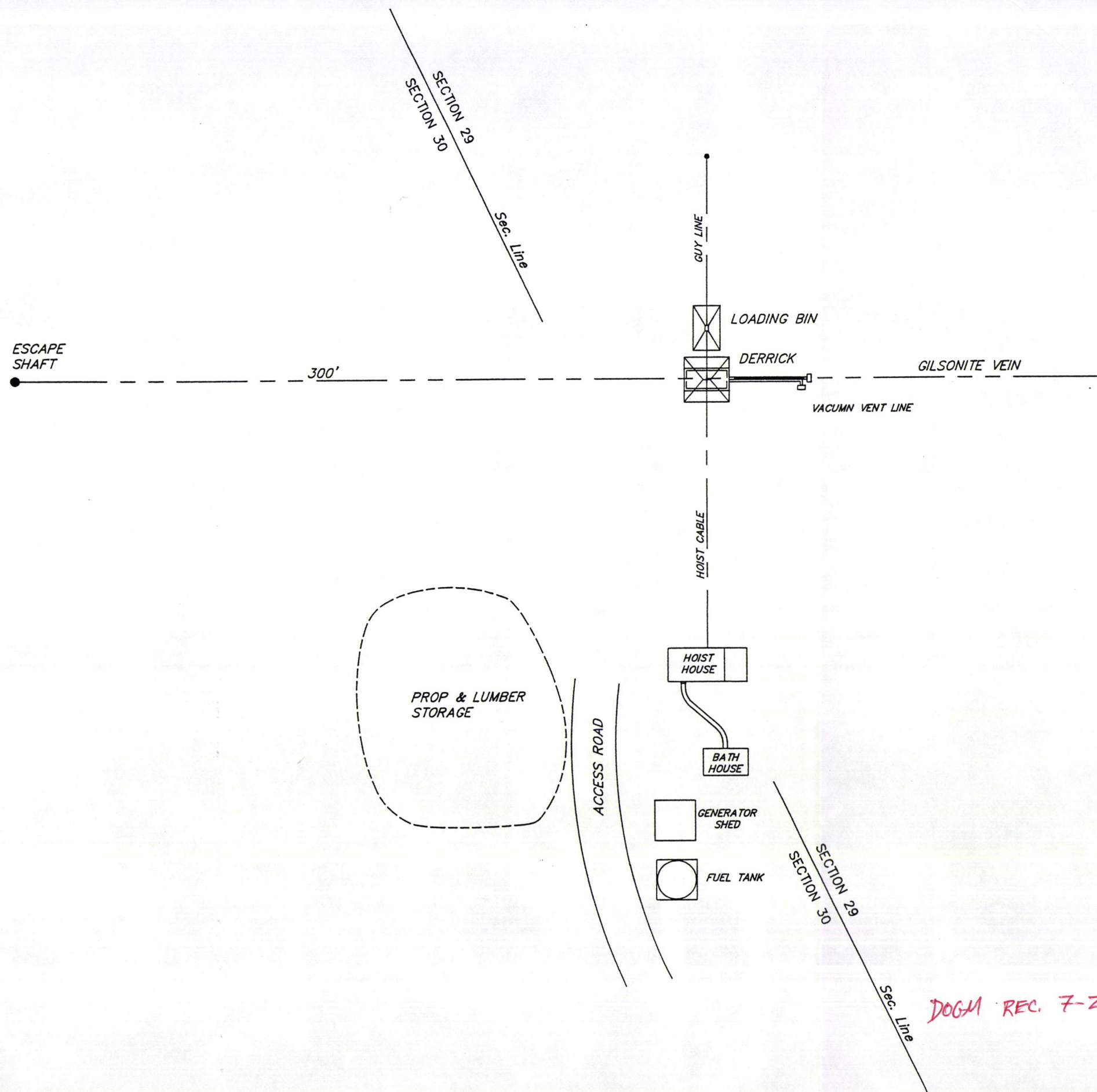
DOGAL REC. 7-22-92

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East Vernal, Utah

40245-13

# ZIEGLER CHEMICAL COTTONWOOD #3 SITE PLAN

LOCATED IN  
SECTIONS 29 & 30, T10S, R21E, S.L.B.&M.  
UINTAH COUNTY, STATE



## CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF

*Robert L. Kay*  
No. 5709  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 5709  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

SCALE	1" = 50'	DATE SURVEYED:	5-22-92	DATE DRAWN:	6-2-92
PARTY	G.S. K.L. R.E.H.	REFERENCES	G.L.O. PLAT		
WEATHER	WARM	FILE	4 0 2 4 5		

DOG-11 REC. 7-22-92

# ZIEGLER CHEMICAL

## COTTONWOOD #3

LOCATED IN  
SECTION 29, T10S, R21E, S.L.B.&M.





DATE: 6-2-92



### VICINITY MAP

Scale: 1" = 1000'

 TO BE RECLAIMED  
IN 1992

 PROPOSED MINING

DOGAM REC. 7-22-92

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East Vernal, Utah



McKeachnie & Allred, P.C.

Attorneys & Counselors

Offices in Vernal & Roosevelt

363 East Main Street  
Vernal, Utah 84078  
801-789-4908  
Fax # 789-4918

865 East 200 North (112-10)  
Roosevelt, Utah 84066  
801-722-3928  
Fax # 722-3920

DOGM  
MINERALS PROGRAM  
FILE COPY

July 17, 1992

Reply to:

Vernal

M/047/013

Mr. Anthony A. Gallegos  
Reclamation Engineer  
Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Ziegler Chemical, Reclamation Contract and Notice of  
Intention to Revise Mining Operations

Dear Mr. Gallegos:

COTTONWOOD #3

Pursuant to your request in your letter to Mr. Norman Haslem with Ziegler Chemical, please find enclosed the completed Reclamation Contract, Notice of Intention to Revise Mining Operations with all related attachments and a list of gilsonite mines in the Cottonwood area.

If you have any questions with regard to the contents of this matter, please address them to the undersigned.

Very Truly yours,

McKEACHNIE & ALLRED

*Gayle McKeachnie*  
Gayle F. McKeachnie

VW

cc: Norman Haslem

RECEIVED

JUL 22 1992

DIVISION OF  
OIL GAS & MINING